INDEX OF AUTHORS

Aguilar-Manjarrez, J. *see* Azam-Ali S. N.
Alford, D. V. A *Textbook of Agricultural Entomology*, reviewed by J. A. Trefor Woodford, 272
Asiedu, R. *see* Craufurd, P. Q.
Audi, P. A. *see* Jones, R. B.
Azam-Ali S. N., Sesay, A., Karikari, S. K., Massawe, F. J., Aguilar-Manjarrez, J., Bannayan, M. and Hampson, K. J. Assessing the potential of an underutilized crop – a case study using bambara groundnut, 433

Bannayan, M. *see* Azam-Ali S. N.
Batugal, P. *see* Eyzaguirre, P. B.
Belete, K. *see* Mulati, E.
Binns, M. R., Nyrop, J. P. and van der Werf, W. *Sampling and Monitoring in Crop Protection: The Theoretical Basis for Developing Practical Decision Guides*, reviewed by J. W. McNicol, 130
Black, M., Bradford, K. J. and Vázquez-Ramos, J. (Eds) *Seed Biology Advances and Applications*, reviewed by S. Matthews, 131
Bledsoe, C. S. *see* Robertson, G. P.
Boekwstein, A., Diederen, P., Jongen, W. M. F., Rabbinge, R. and Rutten, H. (Eds) *Towards an Agenda for Agricultural Research in Europe*, reviewed by C. Thirtle, 270
Bonneau, X. *see* Mialet-Serra, I.
Bosland, P. W. and Votava, E. *Peppers: Vegetable and Spice Capsicums*, reviewed by H. D. Tindall, 130
Bradford, K. J. *see* Black, M.
Brouwer, F. and Crabtree, B. (Eds) *Environmental Indicators and Agricultural Policy*, reviewed by Kenneth J. Thomson, 125
Brush, S. B. (Ed.) *Genes in the Field*, reviewed by N. R. Sackville-Hamilton, 270
Buerkert, A. *see* Gérard, B.
Burgess, P. J. *see* Nixon, D. J.

Calder, I. R. *The Blue Revolution. Land Use and Integrated Water Resources Management*, reviewed by Brennan D. Soane, 127
Carelli, M. L. C. *see* Fahl, J. I.
Carr, M. K. V. *see* Nixon, D. J.
Carr, M. K. V. *see* Gomes, F.
Carr, M. K. V. The water relations and irrigation requirements of coffee, 1
Carvaldho de F., P. C. *see* Lemaire, G.
Cauquil, J. *see* Vaissayre, M.
Chweya, J. A. and Eyzaguire, P. B. (Eds) *The Biodiversity of Traditional Leafy Vegetables*, reviewed by P. R. Dawson, 269
Colemen, D. C. *see* Robertson, G. P.
Collinson, M. (Ed.) A History of Farming Systems Research, reviewed by Hubert Zandstra, 549
Cooper, H. D., Spillane, C. and Hodgkin, T. (Eds) *Broadening the Genetic Base of Crop Production*, reviewed by Finlay Dale, 551
Crabbé, J. *see* Viérmont, J-D.
Crabtree, B. *see* Brouwer, F.
Craufurd, P. Q., Summerfield, R. J., Asiedu, R. and Vara Prasad, P. V. Dormancy in yams, 147

Da Silva, Jr. J. P. *see* Schroth, G.
de Moraes, A. *see* Lemaire, G.
De Zeeuw, A. *see* Meester, G.
Delaplane, K. S. and Mayer D. F. *Crop Pollination by Bees*, reviewed by I. H. Williams, 271
Diederen, P. *see* Boekwstein, A.
Dutfield, G. *Intellectual Property Rights, Trade and Biodiverstity*, reviewed by John Dodds, 126

Englemann, F. and Takagi, H. *Cryopreservation of Tropical Plant Germplasm. Current Research Progress and Application*, reviewed by Steve Millam, 127
Eyzaguire, P. B. *see* Chweya, J. A.
Eyzaguirre, P. B. and Batugal, P. *Farmer Participatory Research on Coconut Diversity: Workshop Report on Methods and Field Protocols*, reviewed by Roger Smith, 128

Fahl, J. I., Carelli, M. L. C., Menezes, H. C., Gallo, P. B. and Trivelin, P. C. O. Gas exchange, growth, yield and beverage quality of *Coffea arabica cultivars* grafted on to *C. canephora* and *C. congensis*, 241
Fenner, M. (Ed.) *Seeds: The Ecology of Regeneration in Plant Communities, 2nd Edition*, reviewed by N. E. Jones 551
Feyen, J. and Wiyo, K. (Eds) *Modelling of Transport Processes in Soils*, reviewed by Sarah M. Dunn, 131

Gallo, P. B. *see* Fahl, J. I.
Gangwar, B. S. *see* Harris, D.
Garnsworthy, P. *see* Malmfors, B.
Gautam, M. *Agricultural Extension: The Kenya Experience; An Impact Evaluation*, reviewed by J. K. Coulter, 270

Gérard, B. and Buerkert, A. Estimation of spatial variability in pearl millet growth with non-destructive methods, 375
Gijsbers, G., Janssen, W., Odame, H. H. and Meijerink, G. (Eds) *Planning Agricultural Research: A Sourcebook*, reviewed by Mike Collinson, 431
Gomes, F. and Carr, M. K. V. Effects of water availability and vine harvesting frequency on the productivity of sweet potato in southern Mozambique. I. Storage root and vine yields, 523
Grossman, M. *see* Malmfors, B.

Hampson, K. J. *see* Azam-Ali S. N.
Harris, D., Raghuwanshi, B. S., Gangwar, B. S., Singh, S. C., Joshi, K. D., Rashid, A. and Hollington P. A. Participatory evaluation by farmers of on-farm seed priming in wheat in India, Nepal and Pakistan, 407
Harris, F. and Yusuf, M. A. Manure management by smallholder farmers in the Kano close-settled zone, Nigeria, 319
Hodges, H. F. *see* Reddy, K. R.
Hodgkin, T. *see* Cooper, H. D.
Hodgson, J. *see* Lemaire, G.
Hollington P. A. *see* Harris, D.

Ison, R and Russell, D. *Agricultural Extension and Rural Development*, reviewed by P. N. Wilson, 127
Ivancic, A and Lebot, V. *The Genetics and Breeding of Taro*, reviewed by D. L. Jennings, 430

Janssen, W. *see* Gijsbers, G.
Johansen, C. *see* Musa, A. M.
Jones, J. W. *see* Salam, Moin U.
Jones, R. B., Audi, P. A. and Tripp, R. The role of informal seed systems in disseminating modern varieties. The example of pigeonpea from a semi-arid area of Kenya, 539
Jones, R. M. *see* 'tMannetje, L.
Jongen, W. M. F. *see* Boekwstein, A.
Joshi, K. D. *see* Harris, D.

Kar, P. P. Mishra, S. and Singh, D. P. Influence of different phosphorus management strategies on the sporulation and growth of *Azolla*, 53.
Karigwindi, J. *see* Waddington, S.R.
Karikari, S. K. *see* Azam-Ali S. N.
Kebreab, E. and Murdoch, A. J. Simulation of integrated control strategies for *Orobanche* spp. based on a life cycle model, 37
Keen, N. T. *see* Stacey, G.
Keen, N. T., Mayama, S., Leach, J. E. and Tsuyumu, S. (Eds) *Delivery and Perception of Pathogen Signals in Plants*, reviewed by G. D. Lyon, 549
Kennedy, G. G. and Sutton, T. B. *Emerging Technologies for Integrated Pest Management: Concepts, Research and Implementation*, reviewed by S. C. Gordon, 132
Kitu, W. T. *see* Mialet-Serra, I.
Kobayashi K. *see* Salam, Moin U.
Kumar, J. *see* Musa, A. M.

Laird, S. A. *see* ten Kate, K.
Leach, J. E. *see* Keen, N. T.
Leakey, R. R. B. and Tchoundjeu, Z. Diversification of tree crops: domestication of companion crops for poverty reduction and environmental services, 279
Lebot, V. *see* Ivancic, A.
Lemaire, G., Hodgson, J., de Moraes, A., Carvaldho de F., P. C. and Nabinger, C. (Eds) *Grassland Ecophysiology and Grazing Ecology*, reviewed by John Frame, 429
Lestari, A. S. *see* Van Den Berg, H.

Malmfors, B., Garnsworthy, P. and Grossman, M. *Writing and Presenting Scientific Papers*, reviewed by J. G. W. Jones, 430
Massawe, F. J. *see* Azam-Ali S. N.
Mayama, S. *see* Keen, N. T.
Mayer D. F. *see* Delaplane, K. S.
Meester, G., Woittiez, R. D. and De Zeeuw, A. (Eds) *Plants and Politics*, reviewed by C. J. Jeffries and S. R. H. Langrell, 125
Meijerink, G. *see* Gijsbers, G.
Menezes, H. C. *see* Fahl, J. I.
Mertz, L. A. *Recent Advances and Issues in Biology*, reviewed by S. Millam, 271
Mialet-Serra, I., Bonneau, X., Mouchet, S. and Kitu, W. T. Growth and yield of coconut/cacao intercrops, 195
Mishra, S. *see* Kar, P. P.
Mouchet, S. *see* Mialet-Serra, I.
Muhr, L., Tarawali, S. A., Peters, M. and Schultze-Kraft, R. Acceptability of forage legumes for improved fallows – first experiences of agro-pastoralists in subhumid southwest Nigeria, 495
Mulati, E. and Belete, K. Participatory varietal selection in lowland sorghum in eastern Ethiopia: impact on adoption and genetic diversity, 231
Müller, C. *Modelling Soil-Biosphere Interactions*, reviewed by Bruce Marshall, 129
Murdoch, A. J. *see* Kebreab, E.
Musa, A. M., Harris, D., Johansen, C. and Kumar, J. Short duration chickpea to replace fallow after *aman* rice: the role of on-farm seed priming in the High Barind Tract of Bangladesh, 509
Mwale, B. *see* Orr, A.

Nabinger, C. *see* Lemaire, G.
Ng'etich, W. K. and Stephens, W. Responses of tea to

environment in Kenya. 1. Genotype × environment interactions for total dry matter production and yield, 333
Ng'etich, W. K. and Stephens, W. Responses of tea to environment in Kenya. 2. Dry matter production and partitioning, 343
Ng'etich, W. K., Stephens, W. and Othieno, C. O. Responses of tea to environment in Kenya. 3. Yield and yield distribution, 363
Ngoliya, A. *see* Steinmaier, N.
Nixon, D. J., Burgess, P. J., Sanga, B. N. K. and Carr M. K. V. A comparison of the responses of mature and young clonal tea to drought, 393
Nye, P. H. *see* Tinker, P. B.
Nyrop, J. P. *see* Binns, M. R.

Odame, H. H. *see* Gijsbers, G.
Orr, A., Mwale, B. and Saiti, D. What is an integrated pest management 'strategy'? Explorations in southern Malawi, 473
Othieno, C. O. *see* Ng'etich, W. K.

Peters, M. *see* Muhr, L.

Rabbinge, R. *see* Boekwstein, A.
Raghuwanshi, B. S. *see* Harris, D.
Rashid, A. *see* Harris, D.
Reddy, K. R. and Hodges, H. F. (Eds) *Climate Change and Global Crop Productivity*, reviewed by D. K. L. MacKerron, 269
Riley, J. Presentation of statistical analyses, 115
Robertson, G. P. Colemen, D. C. Bledsoe, C. S. and Sollins, P. *Standard Soil Methods for Long-term Ecological Research*, reviewed by Paul Hargreaves, 126
Russell, D. *see* Ison, R.
Rutten, H. *see* Boekwstein, A.

Saiti, D. *see* Orr, A.
Salam, Moin U. Jones, J. W. and Kobayashi K. Predicting nursery growth and transplanting shock in rice, 65
Salazar, E. *see* Schroth, G.
Sanga, B. N. K. *see* Nixon, D. J.
Schroth, G., Salazar, E. and Da Silva, Jr. J. P. Soil nitrogen mineralization under tree crops and a legume cover crop in multi-strata agroforestry in central Amazonia: spatial and temporal patterns, 253
Schultze-Kraft, R. *see* Muhr, L.
Sesay, A. *see* Azam-Ali S. N.
Sharma, D. P. *see* Singh, K. N.
Singh, D. P. *see* Kar, P. P.
Singh, K. N. and Sharma, D. P. Response of wheat to nitrogen and potassium in saline soils, 421
Singh, S. C. *see* Harris, D.
Sollins, P. *see* Robertson, G. P.
Spillane, C. *see* Cooper, H. D.
Stacey, G. and Keen, N. T. *Plant-Microbe Interactions, Vol. 5*, reviewed by G. D. Lyon, 273
Steinmaier, N. and Ngoliya, A. Potential of pasture legumes in low-external-input and sustainable agriculture (LEISA). 1. Results from green manure research in Luapula province, Zambia, 297
Steinmaier, N. Potential of pasture legumes in low-external-input and sustainable agriculture (LEISA). 2. Farmer adaptation of starter technology by farmer research groups in Luapula province, Zambia, 309
Stephens, W. *see* Ng'etich, W. K.
Struik, P. C. and Wiersema, S. G. *Seed Potato Technology* reviewed by D. K. L. MacKerron, 126
Summerfield, R. J. *see* Craufurd, P. Q.
Sutton, T. B. *see* Kennedy, G. G.

Takagi, H. *see* Englemann, F.
Tarawali, S. A. *see* Muhr, L.
Tchoundjeu, Z. *see* Leakey, R. R. B.
ten Kate, K and Laird, S. A. *The Commercial Use of Biodiversity. Access to Genetic Resources and Benefit-Sharing*, reviewed by N. W. Kerby, 128
Tinker, P. B. and Nye, P. H. *Solute Movement in the Rhizosphere*, reviewed by P. J. Gregory, 131
Tinker, T. B. (Ed.) *Shades of Green – A Review of UK Farming Systems*, reviewed by Lorna C. Holland, 550
'tMannetje, L. and Jones, R. M. (Eds) *Field and Laboratory Methods for Grassland and Animal Production Research*, reviewed by A. Wright, 550
Tripp, R. *see* Jones, R. B.
Trivelin, P. C. O. *see* Fahl, J. I.
Tsuyumu, S. *see* Keen, N. T.

Uri, N. D. *Conservation Tillage in U.S. Agriculture. Environmental, Economic, and Policy Issues*, reviewed by I. M. Young, 129

Vaissayre, M. and Cauquil, J. *Main Pests and Diseases of Cotton in Sub-Saharan Africa*, reviewed by R. J. Hillocks, 430
Van Den Berg, H. and Lestari, A. S. Improving local cultivation of soybean in Indonesia through farmersi experiments, 183
Van der Vossen, H. A. M. and Wessel, M. (Eds) Plant *Resources of South-East Asia, No 16, Stimulants*, reviewed by R. Lockwood, 272
van der Werf, W. *see* Binns, M. R.
Vara Prasad, P. V. *see* Craufurd, P. Q.
Vázquez-Ramos, J. *see* Black, M.
Viérmont, J-D. and Crabbé, J. *Dormancy in Plants. From Whole Plant Behaviour to Cellular Control*, reviewed by Hugh W. Pritchard, 429

Votava, E. *see* Bosland, P. W.
Waddington, S. R. and Karigwindi, J. Productivity and profitability of maize + groundnut rotations compared with continuous maize on smallholder farms in Zimbabwe, 83
Weiss, E. A. *Oilseed Crops*, Second Edition, reviewed by Melvyn F. Askew, 129
Wessel, M. *see* Van der Vossen, H. A. M.
Whitehead, D. C. W. *Nutrient Elements in Grassland*, reviewed by Peter Millard, 550
Wiersema, S. G. *see* Struik, P. C.
Woittiez, R. D. *see* Meester, G.

Yadav, O. P. *see* Yadav, R. S.
Yadav, R. L. On-farm experiments on integrated nutrient management in rice-wheat cropping systems, 99
Yadav, R. S. and Yadav, O. P. The performance of cultivars of pearl millet and clusterbean under sole cropping and intercropping systems in arid zone conditions in India, 211
Yusuf, M. A. *see* Harris, F.

INDEX OF SUBJECTS

Adoption of and genetic diversity in lowland sorghum in eastern Ethiopia as impacted by participatory varietal selection (Mulati and Belete), 231

Agricultural Entomology, A Textbook of by D. V. Alford, reviewed by J. A. Trefor Woodford, 272

Agricultural Extension and Rural Development, by R. Ison and D. Russell, reviewed by P. N. Wilson, 127

Agricultural Extension: The Kenya Experience; An Impact Evaluation, by M. Gautam, reviewed by J. K. Coulter, 270

Agricultural policy. See *Environmental Indicators and Agricultural Policy*, 125

Agro-pastoralists in subhumid southwest Nigeria first testing forage legume acceptability for improved fallows (Muhr, Tarawali, Peters and Schultze-Kraft), 495

Azolla sporulation and growth as influenced by different phosphorus management strategies (Kar, Mishra and Singh), 53

Bambara groundnut case study to assess the potential of underutilized crops (Azam-Ali, Sesay, Karikari, Massawe, Aguilar-Manjarrez, Bannayan and Hampson), 433

Beverage quality, gas exchange, growth and yield of *Coffea arabica* cultivars grafted on to *C. canephora* and *C. congensis* (Fahl, Carelli, Menezes, Gallo and Trivelin), 241

Broadening the Genetic Base of Crop Production, edited by H. D., Cooper, C. Spillane and T. Hodgkin, reviewed by Finlay Dale, 551

Cacao-coconut intercrops, their growth and yield (Mialet-Serra, Bonneau, Mouchet and Kitu), 195

Chickpea of short-duration type to replace fallow after *aman* rice: the role of on-farm seed priming in the High Barind Tract of Bangladesh (Musa, Harris, Johansen and Kumar), 509

Climate Change and Global Crop Productivity, edited by K. R. Reddy and H. F. Hodges, reviewed by D. K. L. MacKerron, 269

Clusterbean and pearl millet cultivar performance under sole cropping and intercropping systems in arid zone conditions in India (Yadav and Yadav), 211

Coconut–cacao intercrops, their growth and yield (Mialet-Serra, Bonneau, Mouchet and Kitu), 195

Coffea arabica cultivars grafted on to *C. canephora* and *C. congensis*: the effect of grafting on gas exchange, growth, yield and beverage quality (Fahl, Carelli, Menezes, Gallo and Trivelin), 241

Coffea canephora, see Grafted cultivars of *Coffea arabica*, 241

Coffea congensis see Grafted cultivars of *Coffea arabica*, 241

Coffee: irrigation requirements and water relations (Carr), 1

Companion crop domestication for poverty reduction and environmental services: in relation to diversification of tree crops (Leakey and Tchoundjeu), 279

Conservation Tillage in U.S. Agriculture. Environmental, Economic, and Policy Issues, by N. D. Uri, reviewed by I. M. Young, 129

Crop Pollination by Bees, by K. S. Delaplane and D. F. Mayer, reviewed by I. H. Williams, 271

Cryopreservation of Tropical Plant Germplasm. Current Research Progress and Application, edited by F. Englemann and H. Takagi, reviewed by Steve Millam, 127

Delivery and Perception of Pathogen Signals in Plants, edited by N. T. Keen, S. Mayama, J. E. Leach and S. Tsuyumu, reviewed by G. D. Lyon, 549

Dormancy in Plants. From Whole Plant Behaviour to Cellular Control, edited by J-D. Viémont and J. Crabbé, reviewed by Hugh W. Pritchard, 429

Dormancy in yams (Craufurd, Summerfield, Asiedu and Vara Prasad) 147

Drought-induced responses of mature and young clonal tea: a comparison (Nixon, Burgess, Sanga and Carr), 393

Emerging Technologies for Integrated Pest Management: Concepts, Research and Implementation, edited by G. G. Kennedy and T. B. Sutton, reviewed by S. C. Gordon, 132

Environment × genotype interactions for total dry matter production and yield of tea in Kenya (Ng'etich and Stephens), 333

Environmental Indicators and Agricultural Policy, edited by F. Brouwer and B. Crabtree, reviewed by Kenneth J. Thomson, 125

Ethiopia (eastern) and participatory varietal selection in lowland sorghum: impact on adoption and genetic diversity (Mulati and Belete), 231

Evaluation by farmers of on-farm seed priming in wheat in India, Nepal and Pakistan (Harris, Raghuwanshi, Gangwar, Singh, Joshi, Rashid and Hollington), 407

Fallow (after *aman* rice) replacement by short-duration chickpea: the role of on-farm seed priming in the High Barind Tract of Bangladesh (Musa, Harris, Johansen and Kumar), 509
Fallow improvement in subhumid southwest Nigeria: first experiences of agro-pastoralists testing the acceptability of forage legumes (Muhr, Tarawali, Peters and Schultze-Kraft), 495
Farmer Participatory Research on Coconut Diversity: Workshop Report on Methods and Field Protocols, edited by P. B. Eyzaguirre and P. Batugal, reviewed by Roger Smith, 128
Farmers' experiments to improve local cultivation of soybean in Indonesia (Van Den Berg and Lestari), 183
Farming Systems Research, A History of, edited by M. Collinson, reviewed by Hubert Zandstra, 549
Field and Laboratory Methods for Grassland and Animal Production Research, edited by L. 'tMannetje and R. M. Jones, reviewed by A. Wright, 550
Forage legume acceptability for improved fallows – first experiences of agro-pastoralists in subhumid southwest Nigeria, (Muhr, Tarawali, Peters and Schultze-Kraft), 495

Gas exchange, growth, yield and beverage quality of *Coffea arabica* cultivars grafted on to *C. canephora* and *C. congensis* (Fahl, Carelli, Menezes, Gallo and Trivelin), 241
Genes in the Field, edited by S. B. Brush, reviewed by N. R. Sackville-Hamilton, 270
Genetic diversity and adoption of lowland sorghum in eastern Ethiopia as impacted by participatory varietal selection (Mulati and Belete), 231
Genotype × environment interactions for total dry matter production and yield of tea in Kenya (Ng'etich and Stephens), 333
Grafted cultivars of *Coffea arabica* on *C. canephora* and *C. congensis*: effect on gas exchange, growth, yield and beverage quality (Fahl, Carelli, Menezes, Gallo and Trivelin), 241
Grassland Ecophysiology and Grazing Ecology, edited by G. Lemaire, J. Hodgson, A. de Moraes, P. C. de F. Carvaldho and C. Nabinger, reviewed by John Frame, 429
Green manure research results from Luapula province, Zambia as measured in experiments to determine the potential of pasture legumes in low-external-input and sustainable agriculture (LEISA). (Steinmaier and Ngoliya), 297
Groundnut + maize rotation productivity and profitability compared with that of continuous maize on smallholder farms in Zimbabwe (Waddington and Karigwindi), 83
Growth and yield of coconut–cacao intercrops (Mialet-Serra, Bonneau, Mouchet and Kitu), 195

High Barind Tract of Bangladesh and short-duration chickpea to replace fallow after *aman* rice: the role of on-farm seed priming (Musa, Harris, Johansen and Kumar), 509

India, Pakistan and Nepal: participatory evaluation by farmers of on-farm seed priming in wheat (Harris, Raghuwanshi, Gangwar, Singh, Joshi, Rashid and Hollington), 407
Indonesia and improving local cultivation of soybean through farmers' experiments (Van Den Berg and Lestari), 183
Integrated control of *Orobanche* spp: simulation of strategies based on a life cycle model (Kebreab and Murdoch), 37
Integrated nutrient management of on-farm experiments in rice-wheat cropping systems (Yadav), 99
Integrated pest management strategy exploration in southern Malawi (Orr, Mwale and Saiti), 473
Intellectual Property Rights, Trade and Biodiverstity, by G. Dutfield, reviewed by John Dodds, 126
Intercropped and sole-cropped performance of pearl millet and clusterbean cultivars under arid zone conditions in India (Yadav and Yadav), 211
Intercropped coconut–cacao with respect to growth and yield (Mialet-Serra, Bonneau, Mouchet and Kitu), 195
Irrigation requirements and water relations of coffee (Carr), 1

Kano close-settled zone, Nigeria: manure management by smallholder farmers (Harris and Yusuf), 319
Kenya and the role of informal seed systems in disseminating modern varieties using the example of pigeonpea from a semi-arid area (Jones, Audi and Tripp), 539

Low-external-input and sustainable agriculture (LEISA) and the potential for pasture legumes 1. Results from green manure research in Luapula province, Zambia (Steinmaier and Ngoliya), 297
Low-external-input and sustainable agriculture (LEISA) and the potential for pasture legumes 2. Farmer adaptation of starter technology by farmer research groups in Luapula province, Zambia (Steinmaier), 309

Main Pests and Diseases of Cotton in Sub-Saharan Africa, by M. Vaissayre and J. Cauquil, reviewed by R. J. Hillocks, 430
Maize + groundnut rotation productivity and profitability compared with that of continuous maize on smallholder farms in Zimbabwe (Waddington and Karigwindi), 83
Malawi (southern) exploring the strategy of integrated pest management (Orr, Mwale and Saiti), 473
Manure management by smallholder farmers in the Kano close-settled zone, Nigeria (Harris and Yusuf), 319
Modelling of Transport Processes in Soils, edited by J. Feyen and K. Wiyo, reviewed by Sarah M. Dunn, 131
Modelling Soil-Biosphere Interactions, by C. Müller, reviewed by Bruce Marshall, 129
Modern variety dissemination and the role of informal seed systems. The example of pigeonpea from a semi-arid area of Kenya (Jones, Audi and Tripp), 539
Mozambique (southern) and water availability and vine harvesting frequency effects on the productivity of sweet potato – storage root and vine yields (Gomes and Carr), 523

Nepal, India and Pakistan: participatory evaluation by farmers of on-farm seed priming in wheat India, Nepal and (Harris, Raghuwanshi, Gangwar, Singh, Joshi, Rashid and Hollington), 407
Nigeria (subhumid southwest) and forage legume acceptability for improved fallows – first experiences of local agro-pastoralists (Muhr, Tarawali, Peters and Schultze-Kraft), 495
Nigeria and manure management by smallholder farmers in the Kano close-settled zone (Harris and Yusuf), 319
Nitrogen- and potassium- induced responses of wheat in saline soils (Singh and Sharma), 421
Non-destructive methods for estimating spatial variability in pearl millet growth (Gérard and Buerkert), 375
Nursery growth and transplanting shock prediction in rice (Salam, Jones and Kobayashi), 65
Nutrient Elements in Grassland, by D. C. W. Whitehead, reviewed by Peter Millard, 550

Oilseed Crops, Second Edition, by E. A. Weiss, reviewed by Melvyn F. Askew, 129
On-farm experiments on integrated nutrient management in rice-wheat cropping systems (Yadav), 99
Orobanche spp: simulation of integrated control strategies, based on a life cycle model (Kebreab and Murdoch), 37

Pakistan, India and Nepal: participatory evaluation by farmers of on-farm seed priming in wheat (Harris, Raghuwanshi, Gangwar, Singh, Joshi, Rashid and Hollington), 407
Participatory evaluation by farmers of on-farm seed priming in wheat in India, Nepal and Pakistan (Harris, Raghuwanshi, Gangwar, Singh, Joshi, Rashid and Hollington), 407
Participatory varietal selection in lowland sorghum in eastern Ethiopia: impact on adoption and genetic diversity (Mulati and Belete), 231
Partitioning and dry matter production in tea crops in Kenya (Ng'etich and Stephens), 343
Pasture legume potential in low-external-input and sustainable agriculture (LEISA). 2. Farmer adaptation of starter technology by farmer research groups in Luapula province, Zambia (Steinmaier), 309
Pearl millet and clusterbean cultivar performance under sole cropping and intercropping systems in arid zone conditions in India (Yadav and Yadav), 211
Pearl millet spatial growth (variability in) as estimated using non-destructive methods, (Gérard and Buerkert) 375
Peppers: Vegetable and Spice Capsicums, P. W. Bosland and E. Votava, reviewed by H. D. Tindall, 130
Phosphorus management strategies and their influence on the sporulation and growth of *Azolla*, (Kar, Mishra and Singh), 53
Pigeonpea from a semi-arid area of Kenya used to demonstrate the role of informal seed systems in disseminating modern varieties. (Jones, Audi and Tripp), 539
Planning Agricultural Research: A Sourcebook, edited by G. Gijsbers, W. Janssen, H. H. Odame and G. Meijerink, reviewed by Mike Collinson, 431
Plant Resources of South-East Asia, No 16, Stimulants, edited by H. A. M. Van der Vossen and M. Wessel, reviewed by R. Lockwood, 272
Plant-Microbe Interactions, Vol. 5, by G. Stacey and N. T. Keen, reviewed by G. D. Lyon, 273
Plants and Politics, edited by G. Meester, R. D.Woittiez and A. De Zeeuw, A., reviewed by C. J. Jeffries and S. R. H. Langrell, 125
Potassium- and nitrogen-induced responses of wheat in saline soils (Singh and Sharma), 421
Poverty reduction and environmental services through domestication of companion crops in relation to diversification of tree crops: (Leakey and Tchoundjeu), 279
Predicting nursery growth and transplanting shock in rice (Salam, Jones and Kobayashi), 65
Productivity and profitability of maize + groundnut rotations compared with continuous maize on smallholder farms in Zimbabwe (Waddington and Karigwindi), 83

Recent Advances and Issues in Biology, by L. A. Mertz, reviewed by S. Millam, 271
Rice-wheat cropping systems (integrated nutrient management of) in on-farm experiments (Yadav), 99

Sampling and Monitoring in Crop Protection: The Theoretical Basis for Developing Practical Decision Guides, by M. R. Binns, J. P. Nyrop and W. van der Werf, reviewed by J. W. McNicol, 130
Seed Biology Advances and Applications, edited by M. Black, K. J. Bradford and J. Vázquez-Ramos, reviewed by S. Matthews, 131
Seed Potato Technology, by P. C. Struik and S. G. Wiersema, reviewed by D. K. L. MacKerron, 126
Seed priming of wheat on-farm in India, Nepal and Pakistan Participatory: its evaluation by farmers (Harris, Raghuwanshi, Gangwar, Singh, Joshi, Rashid and Hollington), 407
Seed priming, on-farm, of short-duration chickpea to replace fallow after *aman* rice in the High Barind Tract of Bangladesh (Musa, Harris, Johansen and Kumar), 509
Seed systems: the role of informal seed systems in disseminating modern varieties using the example of pigeonpea from a semi-arid area of Kenya (Jones, Audi and Tripp), 509
Seeds: The Ecology of Regeneration in Plant Communities, 2nd Edition, edited by M. Fenner, reviewed by N. E. Jones, 551
Shades of Green – A Review of UK Farming Systems, edited by T. B. Tinker, reviewed by Lorna C. Holland, 550
Short-duration chickpea to replace fallow after *aman* rice: the role of on-farm seed priming in the High Barind Tract of Bangladesh (Musa, Harris, Johansen and Kumar), 509
Simulation of integrated control strategies for *Orobanche* spp. based on a life cycle model (Kebreab and Murdoch), 37
Soil salinity influence on the response of wheat to nitrogen and potassium applications (Singh and Sharma), 421
Sole-cropped and intercropped performance of pearl millet and clusterbean cultivars under arid zone conditions in India (Yadav and Yadav), 211
Solute Movement in the Rhizosphere, by P. B. Tinker and P. H. Nye, reviewed by P. J. Gregory, 131
Sorghum (lowland) in eastern Ethiopia: impact of participatory varietal selection on adoption and genetic diversity (Mulati and Belete), 231
Soybean in Indonesia: improving local cultivation through farmers' experiments (Van Den Berg and Lestari), 183
Spatial variability in pearl millet growth as estimated using non-destructive methods, (Gérard and Buerkert) 375
Standard Soil Methods for Long-term Ecological Research, edited by G. P. Robertson, D. C. Colemen, C. S. Bledsoe and P. Sollins, reviewed by Paul Hargreaves, 126
Starter technology and its adaptation by farmer research groups in Luapula province, Zambia as tested in determining the potential of pasture legumes in low-external-input and sustainable agriculture (LEISA), (Steinmaier), 309
Statistical analyses presentation (Riley), 115
Sweet potato productivity in southern Mozambique: the effects of water availability and vine harvesting frequency on storage root and vine yields (Gomes and Carr), 523

Tea responses to environment in Kenya. 1. Genotype × environment interactions for total dry matter production and yield (Ng'etich and Stephens), 333
Tea responses to environment in Kenya. 2. Dry matter production and partitioning (Ng'etich and Stephens), 343
Tea responses to environment in Kenya. 3. Yield and yield distribution (Ng'etich, Stephens and Othieno), 363
Tea: a comparison of the responses of mature and young clonal tea to drought (Nixon, Burgess, Sanga and Carr), 393
The Biodiversity of Traditional Leafy Vegetables, edited by J. A. Chweya and P. B. Eyzaguire, reviewed by P. R. Dawson, 269
The Blue Revolution. Land Use and Integrated Water Resources Management, by I. R. Calder, reviewed by Brennan D. Soane, 127
The Commercial Use of Biodiversity. Access to Genetic Resources and Benefit-Sharing, by K. ten Kate and S. A. Laird, reviewed by N. W. Kerby, 128
The Genetics and Breeding of Taro, by A. Ivancic and V. Lebot, reviewed by D. L. Jennings, 430
Towards an Agenda for Agricultural Research in Europe, edited by A. Boekwstein, P. Diederen, W. M. F. Jongen, R. Rabbinge and H. Rutten, reviewed by C. Thirtle, 270
Transplanting shock following nursery growth and in rice (Salam, Jones and Kobayashi), 65
Tree crop diversification: domestication of companion crops for poverty reduction and environmental services (Leakey and Tchoundjeu), 279

Underutilized crop assessment – a case study using bambara groundnut (Azam-Ali, Sesay, Karikari, Massawe, Aguilar-Manjarrez, Bannayan and Hampson), 433

Vine harvesting frequency and water availability effects on the productivity of sweet potato in southern Mozambique. Storage root and vine yields, (Gomes and Carr), 523

Water availability and vine harvesting frequency effects on the productivity of sweet potato in southern Mozambique. Storage root and vine yields, (Gomes and Carr), 523

Water relations and irrigation requirements of coffee (Carr), 1

Wheat response to nitrogen and potassium in saline soils (Singh and Sharma), 421

Writing and Presenting Scientific Papers, by B. Malmfors, P. Garnsworthy and M. Grossman, reviewed by J. G. W. Jones, 430

Yams and dormancy (Craufurd, Summerfield, Asiedu and Vara Prasad) 147

Yield and yield distribution of tea in Kenya in responses to environment (Ng'etich, Stephens and Othieno), 363

Zimbabwe and a comparison of the productivity and profitability of maize + groundnut rotations compared with continuous maize on smallholder farms (Waddington and Karigwindi), 83